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AMENDMENTS TO REGULATIONS FOR 1900.

APPROVED AUGUST, 1899.

For the academic year 1899-1900, the following modifications are made in the *Revised Regulations, which came into force in October, 1896:—

PUBLIC SCHOOL COURSE OF STUDY.

The Public School course of study is amended so as to include Agriculture among the obligatory subjects in all rural schools for Forms IV and V; for the latter Form the text-books are to be used by the pupils, but for the former the instruction is to be by conversation only. Agriculture will remain optional for all Public Schools in urban municipalities. Needlework, Domestic Economy, and Manual Training may be taken up in urban schools with the approval of the trustees. In Poetical Literature, the course for Form V will embrace such selections from the High School Reader as are recommended by the teacher. No special selections are prescribed by the Department. Where the trustees have provided books for Supplementary Reading, such works as are recommended by the teacher, under the direction of the Inspector, may also be read.

HIGH SCHOOL COURSE OF STUDY.

The High School course of study is amended by making Bookkeeping obligatory, and by adding Agriculture and Manual Training to the list of optional subjects. In Poetical Literature for Forms I and II, no special texts are prescribed by the Department, but the pupils shall study such selections from the High School Reader as may be recommended by the Principal, together with such books for Supplementary Reading as he may recommend, and which may be obtained from the Library of the School. Any subject prescribed for a Form may be continued in

* A copy of the High and Public Schools Acts, including the Regulations, was sent in 1896 to each High, Public and Separate School Board; to each Principal of a Collegiate Institute or High School; to each Principal of a County Model School, and to each Public School Inspector. As only a limited supply of the Regulations can be furnished, reference should be made to the copies already sent as above mentioned. The selections in Literature for the High School Entrance examination have been printed in the school registers.

a higher Form at the option of the Principal. In the case of pupils preparing for University Matriculation or taking the course for a Commercial Diploma, or where the Board introduces Manual Training or any other branch of technical education, on the recommendation of the Principal less time may be given by the pupils concerned to one or more of the obligatory subjects of the High School course so as to meet as far as practicable the aims of the pupils.

CONTINUATION CLASSES.

Under the provisions of the Amendment of 1899 to the Public Schools Act, the course of study (Regulation 20) for Continuation Classes is extended to include the subjects prescribed for Form II of the High School course. More advanced work of the High School may be taken up if requested by the Trustees and approved by the Public School Inspector. In Class (a) the Principal must give regular instruction only to pupils of Form V or to those doing higher work. In the other classes, the teachers must have such qualifications as are approved by the Public School Inspector.

Hereafter (Regulation 21) there will be four grades of Continuation Classes, viz.:—(a) Schools in which the Principal holds a First Class Certificate (unless occupying the position since April, 1899), and gives regular instruction only to pupils of Form V or to those doing higher work. (b) Schools in which there are at least two teachers, and a class in regular attendance of at least ten pupils who have passed the High School Entrance examination. (c) Schools in which there are at least five; and (d) in which there are at least three, who have passed the High School Entrance examination, and are in regular attendance.

No grant will be paid for Continuation Classes unless the Inspector (who shall examine the statements signed, as hereinafter mentioned, by the Principals and Chairmen of the Boards) reports that the obligatory subjects, whether prescribed for examination purposes or not, have received proper attention. The grant will be paid according to the nature and extent of the work done, and not on the results of examinations. In order that a school may obtain the grant, it will be necessary that the minimum number of pupils be enrolled during each month of the full academic year ending in June.

HIGH SCHOOL ENTRANCE EXAMINATION.

At the High School Entrance Examination the paper in Arithmetic will include such questions as will specially test the accuracy of the candidates in the simple rules, as well as their knowledge of the subject, and the paper in Dictation will call for the study of the authorized spelling book. In other respects the course prescribed, the number and values of the papers, and the mode of conducting the examination, will be the same as heretofore. (Regulations 23-27.)

PRIMARY STANDING.

No examination will be held in Part II of Form II, as defined in Regulation 43, and no certificates that give mere Primary standing (Regu-

lations 45, 48 and 49) will be issued. Except as herein mentioned, and unless the classification should require, no change is made in the course to be taken up in Forms I and II of the High Schools, or for Continuation Classes in Public Schools, by the abolition of the Primary examination.

A Form II (or a Part I Form II) certificate, with a Public School Leaving (or Form I) certificate, will give Part I of Junior Leaving Standing as hereinafter defined. The same certificate, alone, will give the same standing, if endorsed and certified to after June, 1900 by any High School Principal or Public School Inspector with a statement that the holder has taken the required course in the additional subjects (Drawing, Bookkeeping, Reading, etc.), omitted as examination subjects in 1900.

PUBLIC SCHOOL LEAVING EXAMINATION.

The Public School Leaving examination will hereafter be identical with the examination prescribed for Part I. of Junior Leaving standing. Public School Leaving certificates will be issued by the Public School Inspector to all pupils of Public Schools in his inspectorate who pass the examination of Part I. of Junior Leaving standing. The present holders of Public School Leaving certificates will be entitled to certificates of having passed the examination of Part I. of Junior Leaving Standing by passing the examinations in Arithmetic and Mensuration, Grammar and History, the prescribed percentage on the total of these subjects being also exacted.

FORM I. EXAMINATION.

There will no longer be held examinations for the High School Form I., but holders of Form I. certificates will be entitled to certificates of having passed the examination of Part I. of Junior Leaving Standing by passing in the subjects of Arithmetic and Mensuration, Grammar and History, the prescribed percentage on the total of these subjects being also required.

DISTRICT CERTIFICATES.

A certificate of having passed the subjects of Part I. of Junior Leaving standing will be accepted for the non-professional requirements for a District Certificate. (Regulation 63.)

JUNIOR LEAVING STANDING.

Hereafter Junior Leaving Standing will be obtained only by passing in the prescribed subjects at one examination, or in two Parts (I. and II.) as defined below, which may be taken in different years.

Unsuccessful candidates at any previous Junior Leaving examination will be allowed to write in 1900 for Junior Leaving Standing by selecting the same options as were allowed in 1899.

PART I., JUNIOR LEAVING STANDING.

The subjects prescribed for Part I. of Junior Leaving Standing are the following: Reading, Drawing, Geography, Botany (or Agriculture),

Writing with Book-keeping and Commercial Transactions, English Grammar, English Literature, Arithmetic and Mensuration, English Composition, and History. The course in Agriculture will include what is taken up in the authorized text book as far as page 73. The course in the other subjects will be based as heretofore upon the work prescribed in the Regulations for Forms I. and II. subject to requirements for examinations hereinafter mentioned. For 1900 no examination will be held in Reading, English Literature, Drawing, Book-keeping, Botany or Agriculture, but no name of a student who has not given due attention to these subjects is to be included in the confidential report of the Principal.

No grant to a High School or to a Continuation Class will be paid until the Principal and Chairman of the School Board report that each obligatory subject of the course, whether prescribed for examinations or not, has, in their judgment, received due attention on the part of the pupils while attending the school.

It is expected that throughout the course, until pupils have completed what is required for Part I. of Junior Leaving Standing, at least two half-hour periods per week shall be given regularly to Reading, and an equal time to English Literature. Regarding Drawing, Book-keeping, Botany or Agriculture, at least two half-hour periods per week for each of these subjects are to be given regularly to pupils enrolled in Form I. of the High School or Form V. of the Public School; that is practically during the first year of the course in preparation for Part I. of Junior Leaving standing.

EXAMINATION REQUIREMENTS.

(Part I, Junior Leaving Standing.)

Geography.

The building up of the earth; its land surface; the ocean; comparison of continents as to physical features, natural products and inhabitants; relations of physical conditions to animal and vegetable products, and of natural products and geographical condition to the occupations of the people and national progress. Form, size and motions of the earth; lines drawn on the map, with reasons for their position; relation of the positions of the earth with respect to the sun, to light and temperature; the air; its movements; causes affecting climate. Natural and manufactured products of the countries of the world, with their exports and imports; transcontinental commercial highways and their relation to centres of population; internal commercial highways of Canada and the chief internal commercial highways of the United States; commercial relations of Great Britain and her colonies. Forms of governments in the countries of the world and their relation to civilization. One examination paper.

Arithmetic and Mensuration.

Proofs of elementary rules in Arithmetic; fractions (theory and proofs); commercial Arithmetic; mental Arithmetic; Mensuration of rectilinear figures. One examination paper. (The questions will call for accuracy and will have special reference to the requirements of ordinary life).

English Grammar.

Etymology and Syntax, including the inflection, classification, and elementary analysis of words and the logical structure of the sentence and paragraph; exercises chiefly on passages from authors not prescribed. One examination paper. (The questions will call for such an elementary knowledge of the subject as will be of special value in the ordinary use of the language).

English Composition.

For examination purposes an essay of about two pages of foolscap on one of the themes prescribed by the examiners will be required. The penmanship, spelling, punctuation, construction of sentences, the logical arrangement of the thought, the literary accuracy and aptness of the language and the general plan or scope of the whole essay will be especially considered by the examiners. One examination paper.

History of Great Britain and Canada.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The Geography relating to the History prescribed. One examination paper.

PART II., JUNIOR LEAVING STANDING.

The subjects prescribed for Part II of Junior Leaving Standing are the following (Regulation 46 amended): English Grammar and Rhetoric, English Composition, English Literature, Ancient History, Arithmetic and Mensuration, Algebra, Geometry, Physics and Latin, and one of the following groups:—(a) French and Greek; (b) German and Greek; (c) French, German and Chemistry; (d) French, Physics and Chemistry; (e) German, Physics and Chemistry; (f) Botany, Physics and Chemistry.

A candidate, who has already obtained a certificate of having passed Part I of Form II, will not be required to take the papers in Arithmetic and Mensuration, English Grammar and Rhetoric, and the obligatory Physics.

EXAMINATION REQUIREMENTS.

(*Part II, Junior Leaving Standing.*)

English.

ENGLISH GRAMMAR AND RHETORIC: Etymology and Syntax, including the inflection, classification and elementary analysis of words, and the logical structure of the sentence; rhetorical structure of the sentence and paragraph; exercises chiefly on passages from authors not prescribed; the main facts in the development of the language. One examination paper.

COMPOSITION: An essay, to which special importance will be attached, on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary.

About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded. One examination paper.

LITERATURE: Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to the questions on the prescribed selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself. One examination paper.

1900.

LONGFELLOW: Evangeline, A Psalm of Life, Wreck of the Hesperus, "The day is done," The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, Excelsior, The Bridge, A Gleam of Sunshine.

WORDSWORTH: The Education of Nature ("Three years she grew"), "She was a phantom of delight," A Lesson ("There is a flower, the Lesser Celandine"), To the Skylark, The Green Linnet, To the Cuckoo, To the Daisy, and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is, with unuplifted eyes"), "O Friend! I know not which way I must look," To Sleep, Within King's College Chapel.

1901.

TENNYSON: Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotos-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

1902.

SCOTT: Lay of the Last Minstrel.

Ancient History.

(1) General outlines of Greek History to the Battle of Chæronea, 338 B.C.

(2) General outlines of Roman History to the Death of Augustus, authorized text-book, omitting:—

(1) Greek History—Chaps. II., III., VI., VII., XI., XII., XXIV., XXX., XXXI.

(2) Roman History—Chaps. II., III., IV., V., XXIX.

NOTE.—It is desirable, however, that the teacher make oral use of such portions of the omitted chapters as are necessary to make clear the historical connections between important events.

One examination paper.

Mathematics.

ARITHMETIC AND MENSURATION: Proofs of elementary rules in Arithmetic: fractions (theory and proofs); commercial Arithmetic; mental Arithmetic; Mensuration of right parallelopipeds, pyramids and prisms; the circle, sphere, cylinder and cone. One examination paper.

ALGEBRA: Elementary Rules; Highest Common Measure; Lowest Common Multiple; Fractions; Square Root; Simple Equations of one, two, and three unknown quantities; Indices; Surds; Quadratics of one and two unknown quantities.

One examination paper.

GEOMETRY: Euclid, Books I., II., and III.; easy Deductions.

One examination paper.

Elementary Experimental Science (Physics).

Use of metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculations in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and Centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.

Latin.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Cæsar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are the texts prescribed:—

1900: VERGIL, Aeneid, Bk. II; CAESAR, Bellum Gallicum, Bk. V.

1901: VERGIL, Aeneid, Bk. II; CAESAR, Bellum Gallicum, Bks. II, III.

1902: CORNELIUS NEPOS, Lives of Themistocles, Aristides and Hannibal; CAESAR, Bellum Gallicum, Bk. IV (omitting Chap. 17) and Bk. V, Chaps. 1-23; VERGIL, Aeneid, Bk. II (1-505).

Two papers will be set: (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions on Grammar, etc.

N.B.—The Roman method of pronouncing Latin is recommended.

French.

The candidate's knowledge of French will be tested by: (1) simple questions on grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts:—

1900 : ENAULT, le Chien du capitaine ; FEUILLET, la Fée.

1901 : DE MAISTRE, Voyage autour de ma chambre ; LABICHE, la Grammaire.

1902 : LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII ; PERRAULT, le Maître Chat ou le Chat Botté ; DUMAS, Un nez gelé, and la Pipe de Jean Bart ; ALPHONSE DAUDER, la Dernière classe, and la Chèvre de M. Seguin ; LEGOUVÉ, la Patte de dindon ; POUVILLON, Hortibus ; LOTI, Chagrin d'un vieux forçat ; MOLIERE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher . . . sous la mienne) ; VICTOR HUGO, Waterloo, Chap. IX ; ROUGET DE L'ISLE, la Marseillaise ; ARNAULT, la Feuille ; CHATEAUBRIAND, l'Exilé ; THÉOPHILE GAUTIER, la Chimère ; VICTOR HUGO, Extase ; LAMARTINE, l'Automne ; DE MUSSET, Tristesse ; SULLY PRUDHOMME, le Vase brisé ; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

Two papers will be set : (1) prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into French.

Greek.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts :—

1900 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad I.

1901 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad I.

1902 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad VI.

Two papers will be set : (1) prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into Greek.

German.

The candidate's knowledge of German will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into German, (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts :—

1900 : HAUFF, das kalte Herz, Kalif Storch.

1901 : LEANDER, Träumereien (selected by Van Daell).

1902 : GRIMM, Rotkäppchen ; ANDERSON, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelsschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntag-slied, Das Schloss am Meer ; CHAMISSO, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erbkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1-44.

Two papers will be set: (1) prescribed texts and translation at sight; questions on Grammar; (2) the translation of English into German.

Elementary Experimental Science (Chemistry).

Properties of Hydrogen, Chlorine, Oxygen, Sulphur, Nitrogen, Carbon, and their more important compounds. Nomenclature. Laws of combination of the elements. The Atomic Theory and Molecular Theory.

One examination paper.

Botany.

The practical study of representatives of the flowering plants of the locality and representatives of the chief sub-divisions of cryptogams, such as a fern, a lycopod, a horse-tail, a liverwort, a moss, a lichen, a mushroom and a chara. The drawing and description of parts of plants and classification. Comparison of different organs, morphology of root, stem, leaves and hair, parts of the flower, reproduction of flowering plants, pollination, fertilization and the nature of fruit and seeds. At the examination two plants to be selected by the presiding examiner will be submitted, one for classification and one for description. In classification candidates will be allowed to use their floras (the authorized text-book in Botany).

One examination paper.

Physics (of Optional Group).

ELECTRICITY.—Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltmeter; astatic and tangent galvanometers; simple notions of potential; Ohm's law, with units; best arrangement of cells; electric light, arc and incandescent; magnetism; inclination and declination of compass; current induction; induction coil; dynamo and motor; electric bell; telegraph; telephone; electro-plating. SOUND.—Caused by vibrations; illustration of vibrations, pendulums, rods, strings, membranes, plates, columns of air; propagated by waves; its velocity; determination of velocity; pitch; standard forks, acoustical $C = 512$, musical, $A = 870$; intervals; harmonic scale; diatonic scale; equally tempered scale; vibration of air in open and closed tubes, with wave-lengths; resonators; nodes and loops; vibration of strings and wires; reflection of sound; manometric flames. LIGHT.—Rectilinear propagation; image through a pin hole; beam; pencil; photometry; shadow and grease spot photometers; reflection and scattering of light; laws of reflection; images in plain mirrors; multiple images in inclined mirrors; concave and convex mirrors; drawing images; refraction; laws and index of refraction; total reflection; path through a prism; lenses; drawing image produced by a lens; simple microscope; dispersion and color; spectrum; recombination of white light.

One examination paper.

SENIOR LEAVING STANDING.

In order to obtain Senior Leaving Standing, a candidate must pass the examination of Part I of Junior Leaving Standing, and in addition

the subjects herein prescribed for Parts I and II of Senior Leaving Standing, which may be taken at one examination or at different examinations.

Unsuccessful candidates at any previous Senior Leaving examination will be allowed to write in 1900 for Senior Leaving Standing by selecting the same options in the course as they were allowed to take in 1899.

PART I, SENIOR LEAVING STANDING.

The subjects of Part I of Senior Leaving Standing are the following:—English Composition, English Literature, Algebra, Geometry, Trigonometry, English and Ancient History.

EXAMINATION REQUIREMENTS.

(Part I, Senior Leaving Standing).

English.

COMPOSITION : An essay, to which special importance will be attached, on one of several themes set by the examiner.

One examination paper.

LITERATURE : The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

RHETORIC : Reading of prose authors in connection with the study of rhetoric.

One examination paper.

1900.

LONGFELLOW : Evangeline, A Psalm of Life, Wreck of the Hesperus, "The day is done," The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, Excelsior, The Bridge, A Gleam of Sunshine.

SHAKESPEARE : Macbeth.

MILTON : L'Allegro, Il Penseroso, Lycidas, On the Morning of Christ's Nativity.

WORDSWORTH (Palgrave's Golden Treasury of Songs and Lyrics) The Education of Nature ("Three years she grew"), "She was a Phantom of delight," A Lesson ("There is a flower, the Lesser Celandine"), To the Skylark, The Green Linnet, To the Cuckoo, To the Daisy, and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is with unuplifted eyes"), "O Friend! I know not which way I must look," To Sleep, Within King's College Chapel.

1901.

TENNYSON : Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotos-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

MILTON : Paradise Lost, Book VII.

SHAKESPEARE : Julius Cæsar.

1902.

SCOTT : Lay of the Last Minstrel.

MILTON : Paradise Lost, Book I.

SHAKESPEARE : The Merchant of Venice.

Mathematics.

ALGEBRA : Elementary Rules ; Highest Common Measure ; Lowest Common Multiple ; Fractions ; Square Root ; Simple Equations of one, two and three unknown quantities ; Indices ; Surds ; Quadratics of one and two unknown quantities ; Theory of Divisors ; Ratio, Proportion, and Variation ; Progressions ; Notation ; Permutations and Combinations ; Binomial Theorem ; Interest Forms ; Annuities.

One examination paper.

GEOMETRY : Euclid, Books I, II, III, IV, and VI ; Definitions of Book V ; Deductions.

One examination paper.

TRIGONOMETRY : Trigonometrical ratios with their relations to each other ; Sines, etc. of the sum and difference of angles with deduced formulas ; Use of Logarithms ; Solution of Triangles ; Expressions for the area of Triangles ; Radii of circumscribed, inscribed, and escribed circles.

One examination paper.

History.

English History from the discovery of America to 1763.

General outlines of Greek History to the battle of Chæronea, 338 B. C. Special attention to be paid to the following : General characteristics of Greece and the Greeks ; ancient institutions ; constitution of Athens and Sparta ; Persian wars ; growth of the Athenian Empire ; characteristics of the age of Pericles ; Peloponnesian wars ; rise of Thebes ; Theban supremacy ; rise of Macedon ; downfall of Greece.

General outlines of Roman History to the death of Augustus. Special attention to be given to the following : General characteristics of Italy and the Roman people ; struggle of the Plebeians for political and social equality ; conquest of Italy ; Punic wars ; how Rome governed and was governed ; internal and external History of Rome from the downfall of Carthage to the death of Augustus.

The Geography relating to the History prescribed.

One examination paper.

PART II, SENIOR LEAVING STANDING.

The subjects of Part II of Senior Leaving Standing are the following:—Physics, Latin, and one of the following groups;—(a) French and Greek, (b) German and Greek, (c) French and German, (d) French and Chemistry, (e) German and Chemistry, (f) Biology and Chemistry.

EXAMINATION REQUIREMENTS.

(*Part II, Senior Leaving Standing*).

Physics.

MECHANICS: Measurement of velocity; uniformly accelerated rectilinear motion; metric units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

HYDROSTATICS: Fluid pressure at a point; pressure on a horizontal plane; pressure on an inclined plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air-pump; water-pump, common and force; siphon.

ELECTRICITY: Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltameters; electroplating; astatic and tangent galvanometers; simple notions of potential; Ohm's law; shunts; measurement of resistance; electric light, arc and incandescent; current induction; induction coil; dynamo and motor; the joule and watt; electric bell; telegraph; telephone; elements of terrestrial magnetism.

One examination paper.

Latin.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of easy passages of English, similar in style to the authors read.

The following are the prescribed texts:—

1900: CAESAR, *Bellum Gallicum*, Bk. V; VERGIL, *Aeneid*, Bk. II; HORACE, *Odes* III, IV; LIVY XXI.

1901: CAESAR, *Bellum Gallicum*, Bks. II, III; VERGIL, *Aeneid*, Bk. II; HORACE, *Odes* I, II; LIVY XXI.

1902: CAESAR, *Bellum Gallicum*, Bk. IV, omitting Chap. 17, and Bk. V, Chaps. 1-23; VERGIL, *Aeneid* II, lines 1-505; HORACE, *Odes* I, II; CICERO *Pro Lege Manilia*, *Pro Marcello*, *Philippic* XIV.

Two examination papers.

French.

The prescription of work in grammar, the translation of English into French and sight translation is the same for Senior Leaving Standing as for Junior Leaving Standing, but the examination will be of a more advanced character.

The following are the prescribed texts:—

1900: ENAULT: le Chien du capitaine; FEUILLET, la Fée, le Roman d'un jeune homme pauvre; LABICHE, Voyage de M. Perrichon.

1901: DE MAISTRE, Voyage autour de ma chambre; LABICHE, la Grammaire; ERCKMANN-CHATRIAN, Madame Thérèse; LABICHE, la Poudre aux yeux.

1902: LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII; PERRAULT, le Maître Chat ou le Chat Botté; DUMAS, Un nez gelé, and la Pipe de Jean Bart; ALPHONSE DAUDET, la Dernière classe and la Chèvre de M. Seguin; LEGOUVÉ, la Patte de dindon; POUVILLON, Hortibus; LOTI, Chagrin d'un vieux forçat; MOLIÈRE, L'Avaer, Acte III, sc. 5 (Est-ce à votre cocher... sous la mienne); VICTOR HUGO, Waterloo, Chap. IX; ROUGET DE L'ISLE, la Marseillaise; ARNAULT, la Feuille; CHATEAUBRIAND, l'Exilé; THÉOPHILE GAUTIER, la Chimère; VICTOR HUGO, Extase; LAMARTINE, l'Automne; DE MUSSET, Tristesse; SULLY PRUDHOMME, le Vase brisé; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

MÉRIMÉE, Colomba.

Two examination papers.

Greek.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English, similar to the authors read.

The following are the prescribed texts:

1900: XENOPHON, Anabasis, I (Chaps. I-VIII); HOMER, Iliad, I, Odyssey XV; LYSIAS, Contra Eratosthenem, and Epitaphius.

1901: XENOPHON, Anabasis I (Chaps. I-VIII); HOMER, Iliad I, Odyssey XV; LUCIAN, Charon, Vera Historia II.

1902: XENOPHON, Anabasis I (Chaps. I-VIII); HOMER, Iliad VI; Odyssey XVII; LUCIAN, Charon, Vera Historia II.

Two examination papers.

German.

The prescription of work in grammar, the translation of English into German and sight translation is the same for Senior Leaving Standing as for Junior Leaving Standing but the examination will be of a more advanced character.

The following are the prescribed texts :—

1900 : HAUFF, das kalte Herz, Kalif Storch; EICHENDORFF, Aus dem Leben eines Taugenichts; WILHELMI, Einer muss heiraten; BENEDIX, Eigensinn.

1901 : LEANDER, Träumereien (selected by Van Daell); BAUMBACH der Schwiegersohn; GERSTACKER, Germelshausen; ELZ, Er ist nicht eifersüchtig; WICHERT, Post Festum.

1902 : GRIMM, Rotkäppchen; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; ERTL, Himmelsschlüssel; FROMMEL, Das eiserne Kreuz; BAUMBACH, Nicotiana, Der Goldbaum; HEINE, Lorelei, Du bist wie eine Blume; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer; CHAMISSO, Das Schloss Boncourt; CLAUDIUS, Die Sterne, Der Riese Goliath; GOETHE, Mignon, Erlkönig, Der Sänger; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1-44.

EBNER-ESCHENBACH, Die Freiherren von Gemperlein; WILHELMI, Einer muss heiraten.

BENEDIX, Eigensinn.

Two examination papers.

Chemistry.

Chemical Theory. The study of the following elements, with their most characteristic compounds, in illustration of Mendelejeff's Classification of the Elements: Hydrogen; Sodium, Potassium; Magnesium, Zinc; Calcium, Strontium, Barium; Boron, Aluminium; Carbon, Silicon, Tin, Lead; Nitrogen, Phosphorus, Arsenic, Antimony, Bismuth; Oxygen, Sulphur; Fluorine, Chlorine, Bromine, Iodine; Manganese, Iron. Elementary Qualitative Analysis.

A practical examination shall be held in connection with this subject, a pure salt will be sent out for qualitative analysis, and the candidate shall be allowed the use of an analytical table. One examination paper.

Biology.

1. *Elements of Zoology*: Thorough examination of the external form, the gills, and the viscera of some common fish. Study of the prepared skeleton of the same. Demonstration of the arrangement of the muscular and nervous systems and the sense-organs, as far as these can be studied without the aid of the microscope.

Comparison of the structure of the frog with that of the fish. The skeleton of the pectoral and pelvic girdles and of the appendages of the frog, should be studied, and the chief facts in the development of its spawn till the adult form is attained should be observed.

Examination of the external form of a turtle and a snake.

Examination of the structure of a bird.

Study of the skeleton, and also of the teeth of a cat or dog.

Study of the crayfish as a type of the Arthropods.

Comparison of the crayfish with an insect (grasshopper, cricket, or cockroach); also with a millipede and a spider.

Examination of an earthworm.

Study of a fresh-water mussel.

The principles of zoological nomenclature as illustrated by some of the common fresh-water fish, such as the sucker and herring, bass and perch.

Study of an amœba, or paramœcium as a type of a unicellular animal.

The modifications of the form of the body in vertebrates in connection with different methods of locomotion. The natural habits of the various animals examined.

2. *Elements of Botany*: The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representatives of the chief subdivisions of cryptogams, such as a fern, a lycopod, a horsetail, a liverwort, a moss, a lichen, a mushroom, and a chara.

* An elementary knowledge of the microscopic structure of the bean and the maize. Attention will be given in the examination to drawing and description of parts of plants supplied, and to their classification. Comparison of different organs, morphology of root, stem, leaves and hair, parts of the flower, reproduction of flowering plants, pollination, fertilization, and the nature of fruit and seeds.

A practical examination shall be held in connection with this subject. The material for examination will consist of two plants, a microscopic section and an animal.

Two examination papers.

QUESTION PAPERS.

The papers in Part I for Junior Leaving Standing will be different from those set for Matriculation. The Examiners will be expected, moreover, to set papers for the purposes of candidates who desire to become teachers, but it is not intended that the questions shall be more difficult than the Regulations have called for since 1896. The papers in Arithmetic and Mensuration and Grammar and Rhetoric, as hereinbefore mentioned, shall be submitted to candidates, when writing on Part II of the Junior Leaving Course, in addition to the papers in these subjects taken by candidates when writing on Part I. For the optional groups, the examinations will be equal in difficulty, as near as may be, in order that candidates who begin the optional subjects at the same time during their High School course may have equal advantages in preparing for the examinations.

PERCENTAGES.

Each question paper will hereafter be valued at 100 (Regulation 43). Candidates for Junior and Senior Leaving Standing will be required to make 50 per cent. of the aggregate marks prescribed for each of the parts into which the examinations are divided, as well as $33\frac{1}{3}$ per cent. on each paper. Seventy-five per cent. of the aggregate will be require

for Honors. If, after all the answer papers are read, any question paper should be found, by the Board of Examiners, easier or more difficult than intended, the minimum on the paper shall be correspondingly raised or lowered, and the total number of marks correspondingly increased or diminished. Each candidate who makes the required aggregate may be awarded a certificate, even though he should fail to obtain the minimum in a subject, provided he was regarded as fit to pass in that subject by the staff, as shown from the confidential report sent to the Department before the examinations.

COMMERCIAL DIPLOMA.

The course for a Commercial Diploma will, as heretofore, consist of two Parts (I and II). Part I will be the same as Part I of Junior Leaving. Part II will embrace the Commercial subjects mentioned in Regulation 50, viz:—Bookkeeping and Writing; Commercial Transactions, Business forms and usages; Stenography (Theory); Stenography (Dictation.) Bookkeeping shall be taken up in six sets as follows:—

Set I. shall show transactions extending over a period of two months; the transactions of the first month being done by Single Entry, and of the second by Double Entry, and showing the change from Single to Double Entry. Books to be used: Day Book (1st month), Journal Day Book (2nd month), Cash Book, Bill Book, and Ledger.

Set II. The transactions shall be the same as for Set I.; those of the first month being done by Double Entry, and of the second month by Single Entry, and showing the change from Double Entry to Single Entry. Books to be used: Four Column Journal with special columns for Mdse. Purchases and Sales (1st month), Day Book (2nd month), Cash Book, Bill Book, and Ledger.

Set III. A Double Entry set with two partners. Books to be used: Journal Day Book with a special column for Mdse. Sales, Cash Book, Invoice Book, Bill Book, and Ledger, the first three as books of original entry.

Set IV. A Double Entry set; a continuation of Set III., the posting being done in the same ledger. A third partner shall be admitted and the transactions shall include shipments and consignments. Books to be used: Journal Day Book, Cash Book, Invoice Book, Sales Book, Bill Book, and Ledger, the first four as books of original entry.

Set V. A Double Entry Set; a continuation of Set IV., the posting being done in a new ledger. A fourth partner shall be admitted, and the transactions shall include wholesale merchandising, shipment companies, and merchandise companies. Books to be used: The same as for Set IV.

Set VI. A set in Manufacturing. Books to be used: Journal Day Book, with a special column for Mdse. Sales, Cash Book, Time Book, and Ledger.

The Cash Book shall be a book of original entry in all of the Double Entry sets, various special columns being used in the different sets. A monthly Trial Balance shall be made in connection with Sets III., IV.

and V., and Statements of Resources and Liabilities, and of Losses and Gains for all of the sets. The transactions in the different sets shall be different from year to year. The sets may recur tri-ennially, and shall consist of not less than 20 pages of foolscap.

The book-keeping sets of pupils who write at the examination for a Commercial Diploma shall be examined by the teacher and a report sent to the Education Department.

Business Forms and Usages.—Negotiable paper; promissory notes; special notes; bills of exchange; acceptance; negotiation of bills, notes; cheques; collection of accounts; discharge and dishonor; special forms of due bills and orders; accounts, invoices and statements; interest; partnerships; receipts and releases; banking; and commercial correspondence.

Stenography.—At the examination in dictation in stenography, the candidate shall be required to have attained the rate of fifty words per minute. He shall also be required to transcribe his work into longhand at the rate of twelve words per minute. The dictated matter shall consist of business letters and legal documents.

Four examination papers, each valued at 100.

COUNTY MODEL SCHOOLS.

The abolition of the Primary examination will not affect the rights of holders of Primary standing obtained in 1898, or a previous year, to attend County Model Schools. It should be understood that County Boards of Examiners are not allowed to award Third Class certificates to candidates who do not make the higher percentage required by Regulation 63. A District Certificate shall not be granted under this section of the Regulations unless there is a scarcity of teachers, and until the consent of the Department has been first obtained. Renewals, granted under Regulation 87, are valid only in the county where issued. Beginning with the examinations of the Model Schools of 1900, an additional paper in Methods will be submitted to test the ability of the students-in-training to teach Drawing, Writing, Bookkeeping and Elementary Science (Botany or Agriculture). There will also be an examination in Reading.

NORMAL COLLEGE.

All students entering the Normal College, irrespective of the academic course which they may have taken, must take the subjects prescribed in Regulation 80, subject to the following conditions:—

(1) Holders of Senior Leaving Certificates, granted on Departmental examinations, may omit Latin if they do not select the Greek option.

(2) Unsuccessful candidates at previous examinations will be allowed to write at the final examination of any year without attendance at the Normal College, and may confine themselves to the same subjects as taken previously.

Teachers of ten years' successful experience, who hold Normal School Certificates, and who have the necessary academic standing, may write at the final examination of the Normal College without attendance.

Any person graduating with Honors from any University in the British Dominions, who has spent two years as a registered student in postgraduate work in any British, European or other University approved by the Minister of Education, may write at the final examination of the Normal College without attendance on furnishing satisfactory evidence of having taken such postgraduate course.

INSTRUCTIONS TO EXAMINERS.

The instructions issued, under the provisions of Regulation 109, may modify some minor provisions of the Regulations, more especially so far as refer to the conduct of the examinations. Any modifications of this nature will not, however, affect the course of study prescribed, or materially modify the provisions herein mentioned.

GEO. W. ROSS,
Minister of Education.

EDUCATION DEPARTMENT,
Toronto, Aug., 1899.
